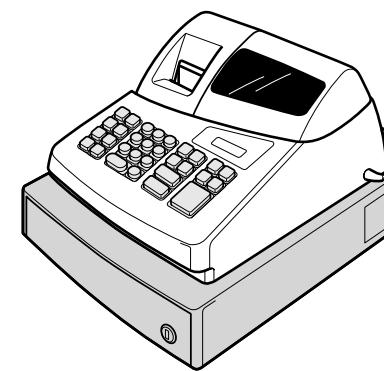


INSTRUCTION MANUALPrinted in Korea
O(TINSE2457BHZZ) ②**CAUTION**

The socket-outlet shall be installed near the equipment and shall be easily accessible.

FOR YOUR RECORDS

Please record below the model number and serial number, for easy reference, in case of loss or theft. These numbers are located on the right side of the unit. Space is provided for further pertinent data.

Model Number _____
 Serial Number _____
 Date of Purchase _____
 Place of Purchase _____

Handling Cautions

Install the cash register in a location not subject to direct sunlight, unusual temperature changes, high humidity, or splashing water.

Do not operate the cash register with wet hands. Water can cause internal component failure.

The cash register plugs into any standard wall outlet (120V AC ± 10%). Avoid connecting any other electrical devices on the same electrical circuit since such connection could cause the cash register to malfunction.

When cleaning the cash register, use a dry, soft cloth. Never use volatile liquids, such as benzine or thinner. Chemicals can discolor or damage the cabinet.

For protection against data loss, please install three new "AA" batteries before using the cash register. However, never forget you must initialize the cash register before installation of batteries; otherwise damage to memory contents or malfunctioning of the register will occur. You can start operating it only after initializing it and then installing batteries.

For complete electrical disconnection, pull out the main plug.

For assistance call
1-800-BE-SHARP**For Easy Set-up,
See "Getting Started"****Getting Started****Initializing the Cash Register**

For your cash register to operate properly, you must initialize it before programming for the first time. Follow this procedure.

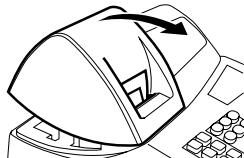
1. Remove the register from its packing carton.
2. Set the mode switch to the REG position.
3. Insert the plug into the AC outlet.
- IMPORTANT: This operation must be performed without batteries loaded.**
4. The buzzer will sound three times. Now your cash register has been initialized. The display will show "0.00" with "L".

Installing Batteries

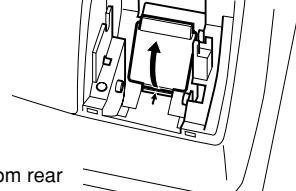
Batteries must be installed in the cash register to prevent data and programmed contents from being lost from the memory in case of accidental disconnection of the AC cord or power failure. Please install three new "AA" batteries before programming and operating the cash register. Once installed, the batteries will last approximately one year. When it is time to replace them, the "L" symbol will appear on the display to indicate a low battery voltage. If the symbol appears, you must replace them within two days.

Install the batteries according to this procedure with the AC cord connected:

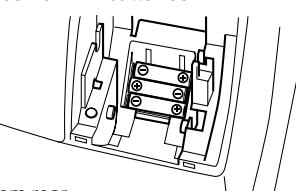
1. Push the printer cover forward and detach it.



2. Open the battery cover next to the paper roll cradle.



3. Insert three new AA batteries.



4. When the batteries are properly installed, "L" on the display will disappear. Close the battery cover.

5. Attach the printer cover.

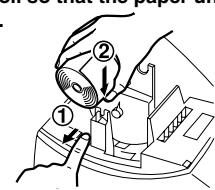
Improper use of batteries could cause them to burst or leak, which might damage the interior of the cash register. Please take the following precautions:
 Be sure that the positive (+) and negative (-) poles of each battery are oriented properly.

- Never mix batteries of different types.
- Never mix old batteries and new ones.
- Never leave dead batteries in the battery compartment.
- Remove the batteries if you plan not to use the cash register for long periods. Should a battery leak, clean out the battery compartment immediately, taking care not to let the battery fluid come into direct contact with your skin.

Installing a Paper Roll

Always install the paper roll even when you set the register for not printing journal or receipt in REG mode.

1. Push the printer cover forward and detach it.
2. Push the paper roll release lever and install the paper roll so that the paper unrolls from the bottom.



3. Insert the paper straight into the paper inlet, and press the key. The inserted end comes out at the printing area.



4. (For journal printing) Insert the top end of the paper into the slit in the take-up spool shaft and wind the paper two or three turns. Then place the take-up spool on the bearing.

**5. Attach the printer cover.**

(For receipt printing, step 4 should be omitted.)

Setting the Time

Set the mode switch to the Z/PGM position and enter the time in 4 digits ("hhmm" format) using the 24 hour system. Press the key once to continue programming or twice to exit the program mode.

1 4 3 0 #/ (SBTL)

Time(2:30 p.m.)

Always enter the time in 4 digits even when the hour is in the single digit. For example, enter 0 8 3 0 for 6:30 a.m.
 6:30 a.m. prints as "6-30" and 6:30 p.m. prints as "6-30@".

Setting the Date

In the Z/PGM mode, enter the date in 6 digits using the month-day-year format. Press the key once to continue programming or twice to exit the program mode.

0 3 1 5 0 2 #/ (SBTL)

Date(March 15, 2002)

Always enter the date in 6 digits. For example, enter 0 3 0 3 0 0 for March 15, 2002. If you change the date format in the Z/PGM mode, follow the newly specified format when setting the date.

Checking the Time and Date

You can display the time and date to check if they are correctly set.

1. Set the mode switch in the REG position.
2. Press the key once to display the time.
3. Press the key a second time to display the date.

Programming the Tax Rate

Before you can proceed with registration of sales, you must first program the tax that is levied in accordance with the law of your state. Your cash register comes with the ability to program four different tax rates. In most states, you will only need to program Tax 1. However, if you live in an area that has a separate local tax (such as a Parish tax) or a hospitality tax, your register can be programmed to calculate these separate taxes.

In order to program the tax to be collected in accordance with the law of your state, you must specify the tax rate(s) and minimum taxable amount(s).

When you program the tax status for a department, tax will be automatically added to sales of items assigned to the department according to the programmed tax status for the department. You can also enter tax manually.

There are two tax programming methods. The tax rate method uses a straight percentage rate per dollar. The tax table method requires tax break information from your state or local tax offices. Use the method which is acceptable in your state. You can obtain necessary data for tax programming from your local tax office.

For tax table programming, see "programming".

Tax Rate Programming

The percent rate specified here is used for tax calculation on taxable subtotals. Set the mode switch to the Z/PGM position and use the following sequence to program the tax rate:

9 → #/ SBTL → Tax number(1-4) → @/TM → R
 → @/TM → Q → CA/AT/NS

where R and Q represent the following.

R: Tax rate (0.0000% to 99.9999%) × 1000
 Enter the rate in 6 digits (leading zeros may be omitted). If the rate is fractional (e.g., 4 3/8%), it should be converted to its decimal equivalent (4.375) before entering.

Q: Minimum taxable amount (0.01 to 99.99) × 100
 Smallest amount for which tax must be collected. In some states, sales whose amounts are less than the minimum taxable amount are not subject to tax. If amounts \$0.01 to \$0.10 are not taxed, the value of Q would be 11 (for \$0.11), the lowest of the first taxable category.

9 #/ SBTL 0 @/TM 7 0 0 0 0 0 @/TM 1 1 CA/AT/NS
 Tax 1 Tax rate(7.0000%) Min. taxable amount(\$0.11)

Changing Other Settings As Necessary
 Your cash register is pre-programmed so that you can use it with minimum setup. To change the initial settings, see the appropriate sections.

Initial Settings

- Departments 1 to 4:
 Taxable 1. Positive (+). Preset price: 0.00
 Departments 5 to 8:
 Non-taxable. Positive (+). Preset price: 0.00
 PLU codes 1-10:
 Assigned to dept. 1. Preset price: 0.00
 PLU codes 11-80:
 Not used

Programming

Before you begin programming, set the mode switch to the Z/PGM position.



Follow these steps as needed.

NOTE If you do not press the **[#SBTL]** key at the end of each programming step, you can continue programming without printing the programming report.

Programming by Departments

Preset Unit Price

The preset unit price function assigns a frequently purchased item to a department key and enables you to enter the price simply by pressing the department key. Specify a price using the following sequence:

Unit Price (Max. 5 digits) → Dept. key (→ **[#SBTL]**)

Department Status

You can specify various status parameters (+/- sign, single item cash sale function, taxable status and entry digit limit) for a department key. Use the following sequence:

ABCDEF → **[@TM]** → Dept. key (→ **[#SBTL]**)

where A to G represent the following choices.

A: Choice of + or - sign

Enter 0 for + or 1 for -.

B: Choice of single item cash sale (SICS) function

Enter 0 for normal or 1 for single item cash sale.

C, D, E and F: Choice of taxable status

Enter 0000 for non-taxable, 0001 for taxable 1, 0010 for taxable 2, 0100 for taxable 3, 1000 for taxable 4 or 0011 for taxable 1 and 2.

G: Entry digit limit (0 to 7 digits)

Enter 0, 1, 2, 3, 4, 5, 6 or 7.

PLU (Price Look-Up) Programming

Each PLU is associated to a department and the programmed contents for the department are automatically applied. Your cash register is pre-programmed so PLU codes 1-10 are assigned to department 1 and PLU codes 11-80 are disabled. To set the price or change the associated department, use the following sequence:

PLU code → **PLU** → Price → Dept. key (→ **[#SBTL]**)

Ex.: **1 PLU** **8 9 5** **2 6** (→ **[#SBTL]**)
PLU code Price Associated dept.

To disable a PLU code, use the following sequence:

PLU code → **PLU** → **VOID** (→ **[#SBTL]**)

Tax Programming

Tax Table Programming

If you are in an area that uses a tax table for tax calculation, you can program the cash register accordingly. Tax table programming can be performed for Tax 1 and Tax 2.

Sample tax table 1 (6%):

Tax	Breakpoint	Breakpoint difference	
.00	.01	.10	Non-cyclic
.01	.11	.12	
.02	.23	.16	
.03	.39	.18	
.04	.57	.16	
.05	.73	.16	
.06	.89	.22	
.07	1.11	.12	
.08	1.23	.16	
.09	1.39	.18	
.10	1.57	.16	
.11	1.73	.16	
.12	1.89	.22	
.13	2.11		

Sample tax table 2:

Tax	Breakpoint
.00	.01
.01	.11
.02	.26
.03	.47
.04	.68
.06	.89
.09	1.11
.10	1.26
.11	1.47
.12	1.68
.14	1.89
.17	2.11

NOTE If tax is not shown for every cent, use the breakpoint of the next highest tax amount for each missing breakpoint. In sample tax table 2, tax is not shown for .05, .07, .08, .13, .15 and .16. Likewise, the corresponding breakpoints are not shown. To complete the table, simply insert the next highest breakpoint after each missing figure. Therefore, the breakpoint for .05 would be .89, .07 and .08 would be 1.11, etc.

Use the following sequence for tax programming:

8 → **[#SBTL]** → **1** for Tax 1 or **2** for Tax 2 → **[@TM]** → **R** → **[@TM]** → **M** → **[@TM]** → **Q** → **[@TM]** → Breakpoint → **[CA/AT/NS]**

where R, M and Q represent the following:

R: Tax rate (0.0000 to 99.9999) × 10000

If the rate is fractional, it should be converted to its decimal equivalent before entering.

M: Cycle (0.01 to 99.99) × 100

In tax table 1, you can see that the breakpoint differences repeat in cycle. The value of M may be viewed as the taxable amount which is covered by a cycle. Thus, it can be determined by adding all of the breakpoint differences in a cycle or by simply taking the difference between the first breakpoint of the cycle and the first breakpoint of the next cycle.

Q: Minimum taxable amount (0.01 to 99.99) × 100

This represents the smallest amount for which tax must be collected. In some states, sales whose amounts are less than a specific minimum taxable amount are not subject to taxation.

Breakpoints (0.01 to 99.99) × 100

The tax amount increases in stages. The value of a taxable subtotal at which the tax amount changes is called a breakpoint. The difference between one breakpoint and the next is called the breakpoint difference. A group of breakpoint differences is repeated at regular intervals and each of these intervals is called a cycle. A maximum of 18 breakpoints (for tax types 1 and 2), between 0.01 to 99.99, can be programmed. Intervals between breakpoints must be less than one dollar.

Example: Programming Tax 1 as 6% sales tax using sample tax table 1.

8 **[#SBTL]** **1** **[@TM]** **6 0 0 0 0 0** **[@TM]** **1 0 0**
Tax 1 Tax rate(R) Cycle(M)
[@TM] 1 1 **[@TM] 2 3** **[@TM] 3 9** **[@TM] 5 7**
Minimum taxable Breakpoint Breakpoint Breakpoint
(First breakpoint)
[@TM] 7 3 **[@TM] 8 9** **[@TM] 1 1 1** **[CA/AT/NS]**
Breakpoint Breakpoint Breakpoint
(First breakpoint of the next cycle)

B, C, D and E: Choice of taxable status

Enter 0000 for non-taxable, 0001 for taxable 1, 0010 for taxable 2, 0100 for taxable 3, 1000 for taxable 4 or 0011 for taxable 1 and 2.

Initial setting: - (discount), non-taxable ("10000")

Programming the percent rate

Use the following sequence:

Percent rate (0.01% to 99.99%) → **%** (→ **[#SBTL]**)
(ex. For 10.00% enter **1 0 0 0 0**.)

Initial setting: 0.00(%)

Printing Format

You can choose either a journal or receipt format and specify other options for the printing format. Use the following sequence:

2 → **[#SBTL]** → ABCDEFG → **[#SBTL]** (→ **[#SBTL]**)

A: Printing journal/receipt in the REG mode

Enter 0 for printing or 1 for no printing.

B: Journal or receipt format

Enter 0 for journal format or 1 for receipt format.

(In the receipt format, the paper is fed by a few lines upon finalization of each transaction. In the journal format, the paper is wound around the take-up spool.)

C: Printing date

Enter 0 to print or 1 not to print.

D: Printing time

Enter 0 to print or 1 not to print.

E: Printing consecutive numbers

Enter 0 to print or 1 not to print.

F: Printing taxable subtotal

Enter 0 to print or 1 not to print.

G: Printing merchandise subtotal with **[#SBTL]**

Enter 0 to print or 1 not to print.

Initial setting: printing in the REG mode, journal format, printing date, time and consecutive number, and not printing taxable subtotal and merchandise subtotal ("0000011")

Consecutive Receipt Number

Consecutive receipt number can be printed on every transaction or receipt and report with the date and time. Use the following sequence to set the receipt start number. To start from a specific number, enter the number less one (e.g. if you want to start from receipt number 1001, enter 1000).

Consecutive (receipt) number → **[@TM]** → **[#SBTL]** (→ **[#SBTL]**)
Initial setting: starting from 0001("0000")

(For miscellaneous settings, secret code and checking machine settings, see the columns below.)

Miscellaneous Settings

You can program miscellaneous settings using the following sequence:

1 → **[#SBTL]** → ABCDEFGH → **[#SBTL]** (→ **[#SBTL]**)

where A, B, C, D, E, F, G and H represent the following choices.

A: Date format

Enter 0 for mmddyy, 1 for ddmmyy or 2 for yymmdd.

B: Time format

Enter 0 for 12 hour system or 1 for 24 hour system.

C: Decimal point setting

Enter 0, 1 or 2 or 3 for the decimal point position.

D: Resetting receipt no. when issuing Z report

Enter 0 to not reset or 1 to reset.

E: Amount tendered compulsory

Enter 0 for non compulsory or 1 for compulsory.

F: Choice of **[#SBTL]** compulsory

Enter 0 for non compulsory or 1 for compulsory.

G: Entry digit limit for **CH**, **CHK**, **SATY**, **JRA**, **IPC** and manual tax

Enter 0, 1, 2, 3, 4, 5, 6, 7 or 8 for the entry digit limit.

H: Rounding

Enter 0 for rounding off, 1 for rounding up or 2 for rounding down.

Initial setting: date format "mmddyy", time format "12 hour system", decimal point position "2", not resetting, amount tendered non compulsory, **[#SBTL]** non compulsory, entry digit limit "8" and rounding off ("00200080")

Secret Code

A secret code can be specified so that only those who know the secret code may issue Z reports for reading and resetting of sales, perform programming in the Z/PGM mode and void operation in the VOID mode. The pre-programmed secret code setting is 0000 (no secret code). Use the following sequence to enter a secret code (4 digits).

Secret code → **[@TM]** → **CA/AT/NS**

The secret code function can be disabled by entering **0 0 0 0** (or nothing) for the code in the above sequence.

When entry of secret code is necessary, "----" is displayed. Each time you enter a number for the secret code, the corresponding symbol "-" changes to "_".

Checking the Machine Settings

To obtain a printout that shows the cash register settings, set the mode switch to the Z/PGM position and use the following sequence:

000017 1 **8.95**
100016 2 **6.00**
100016 3 **10.00**
000016 4 **-0.00**

0001 % **-8.00**
#1234
00200080#1
0000011#2
00#7
6•0000 1 II
1 0.11
2 0.23
3 0.39
4 0.57
5 0.73
6 0.89
7 1.11
7•0000 2 II
0.11
0.00
0.0000 3 II
0.00
0.0000 4 II
0.00
4 #
03-16-02

Maintenance

Batteries

This cash register provides a low battery symbol (L) and a no battery symbol (L) which appears on the far left of the display in one of the following situations:

Low battery symbol (L)

- When less than 3 batteries are installed in the cash register.
- When the voltage of the batteries installed in the cash register is under the required level.

No battery symbol (L)

- When no batteries are installed in the cash register.
- When the batteries installed in the cash register are dead.

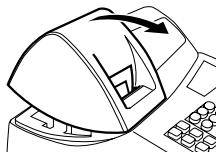
When either of these symbols appear, check batteries. If no batteries are installed, install three new "AA" batteries at once. If batteries are already installed, replace them with new ones as soon as possible. If the AC power cord is disconnected or a power failure occurs when the batteries are dead or not installed, all the programmed settings will be reset to the default settings and any data stored in memory will be cleared.



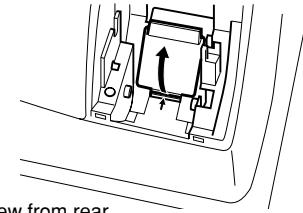
If the low battery symbol appears while making a transaction, complete the transaction before replacing the batteries.

Replacement

- Be sure the cash register is plugged in.
- Set the mode switch to the REG position.
- Pull the printer cover upward and detach it.

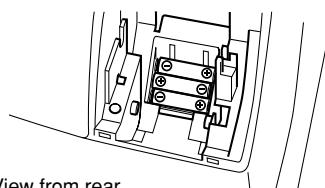


- Open the battery cover and remove the old batteries.



View from rear

- Install three new "AA" batteries into the battery compartment.



- Check that the " L " symbol has disappeared.

- Close the battery cover.

- Replace the printer cover.

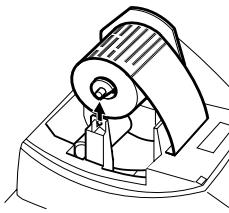
Improper use of batteries could cause them to burst or leak, which might damage the interior of the machine. See the cautions in the "Getting Started" section.

Paper Roll

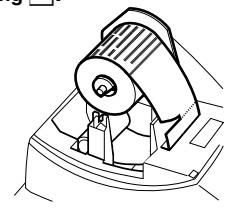
When colored dye appears on the edges of the paper roll, it is time to replace the roll. Use paper of 2 1/4" (57 mm) in width. To prevent jamming be sure to use paper specified by SHARP.

Replacement (Journal printing)

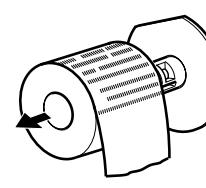
- Set the mode switch to the REG position.
- Open the printer cover.
- Press UP to advance the paper several lines. Remove the take-up spool from the bearing.



- After cutting the existing paper, remove the paper roll. Then remove the remaining paper by pressing UP .



- Remove the used journal paper roll (if used) from the take-up spool.

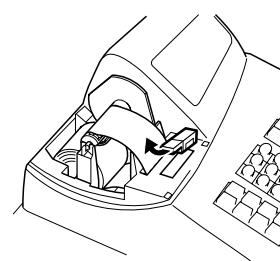


- Install a new paper roll and the take-up spool according to the instructions in "Getting Started."

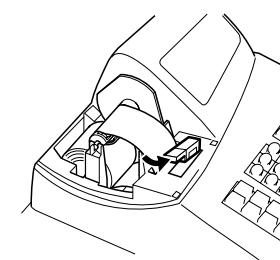
In the case of receipt printing, steps 3 and 5 should be omitted and the take-up spool need not be installed in step 6.

Replacing the Ink Roller

- Open the printer cover.
- Remove the ink roller by pulling it upward.



- Install a new ink roller.



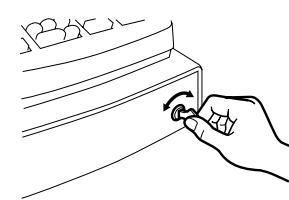
- Close the printer cover.

Drawer Handling

Locking the Drawer

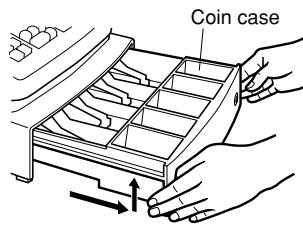
Develop the habit of locking the drawer when not using the register for any extended period of time.

- To lock:** Insert the key into the drawer lock and turn it 90 degrees counter-clockwise.
To unlock: Insert the key into the drawer lock and turn it 90 degrees clockwise.



Removing the Drawer

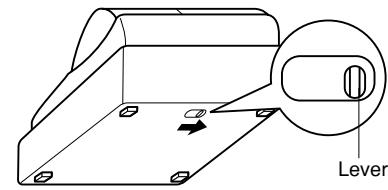
To remove the drawer, pull it out and lift it up.



- To prevent burglary, it is a good idea to empty the drawer after work and leave it open at the end of the day.
• Coin case is detachable.

Manually Opening the Drawer

In case of a power failure or if the machine is out of order, locate the lever at the bottom of the machine and move it in the direction of the arrow to open the drawer. The drawer will not open if it is locked with the drawer lock key.



Before Calling for Service

If you encounter any of the following problems, please read below before calling for service.

The display shows symbols that do not make sense.

- Has the machine been initialized properly as shown in "Getting Started"?

The display will not illuminate while the machine is turned on. The machine will not operate when any key is pressed.

- Is the power supplied to the electrical outlet? (Plug another electrical device into the outlet for confirmation.)
- Is the power cord firmly connected to the electrical outlet?

The display is illuminated, but the machine will not accept key entries.

- Is the mode switch properly set to the REG position?
- Has the machine been initialized properly as shown in "Getting Started"?

Journal paper will not feed properly in the printer.

- Is the take-up spool installed properly?
- Is there a paper jam?
- Is the journal format selected in the printing format programming? (If the receipt format is selected, the paper is not wound around the take-up spool.)

Printing is faded or illegible.

- Is the ink roller used up?
- Has the ink roller been installed properly?

Specifications

Model:

XE-A101

Size:

Inches: 13.0 (W) x 14.3 (D) x 9.96 (H)
 Millimeters: 330 (W) x 363 (D) x 253 (H)

Weight:

Approx. 11.0 lbs. (5.0 kg)

Power Source:

120V AC \pm 10%, 60Hz

Power Consumption:

Stand-by: 4 W, Operating: 12.5 W

Working Temperature:

32 to 104°F (0 to 40°C)

Display:

LED (Light-Emitting Diode) numeric display

Printer:

1 station, print wheel selective type

Printing Capacity:

Max. 13 characters

Paper Roll:

Width: 2 1/4" \pm 1/64" (57.5mm \pm 0.5mm)
 Max. external diameter: 3-5/32" (80mm)

Min. internal diameter: 15/32" (12mm)

Cash Drawer:

4 slots for bills, 5 for coins

Accessories (supplied):

Paper roll: 1 roll
 Drawer lock key: 2
 Instruction manual (English): 1 copy
 Instruction manual (Spanish): 1 copy
 Quick Start Guide (English/Spanish): 1 copy
 Ink roller: 1 (installed)
 Take-up spool: 1

• Specifications and appearance are subject to change without notice for improvement.

LIMITED WARRANTY

SHARP ELECTRONICS CORPORATION warrants to the first consumer purchaser that this Sharp brand product (the "Product"), when shipped in its original container, will be free from defective workmanship and materials and agrees that it will, at its option, either repair the defect or replace the defective Product or part thereof at no charge to the purchaser for parts or labor for the time period(s) set forth below.

This warranty does not apply to any appearance items of the Product nor to the additional excluded item(s) set forth below nor to any product the exterior of which has been damaged or defaced, which has been subjected to misuse, abnormal service or handling or which has been altered or modified in design or construction.

In order to enforce the rights under this limited warranty, the purchaser should follow the steps set forth below and provide proof of purchase to the servicer.

The limited warranty described herein is in addition to whatever implied warranties may be granted to purchasers by law. ALL IMPLIED WARRANTIES INCLUDING THE WARRANTIES OF MERCHANTABILITY AND FITNESS FOR USE ARE LIMITED TO THE PERIOD(S) FROM THE DATE OF PURCHASE SET FORTH BELOW. Some states do not allow limitations on how long an implied warranty lasts, so the above limitation may not apply to you.

Neither the sales personnel of the seller nor any other person is authorized to make any warranties other than those described herein or to extend the duration of any warranties beyond the time period described herein on behalf of Sharp.

The warranties described herein shall be the sole and exclusive remedies available to the purchaser. Correction of defects, in the manner and for the period of time described herein, shall constitute complete fulfillment of all liabilities and responsibilities of Sharp to the purchaser with respect to the Product and shall constitute full satisfaction of all claims, whether based on contract, negligence, strict liability or otherwise. In no event shall Sharp be liable, or in any way responsible, for any incidental or consequential economic or property damage. Some states do not allow the exclusion or incidental or consequential damages, so the above exclusion may not apply to you.

THE WARRANTY GIVES YOU SPECIFIC LEGAL RIGHTS. YOU MAY ALSO HAVE OTHER RIGHTS WHICH VARY FROM STATE TO STATE.

Your Product: XE series Electronic Cash Register

Warranty Period of this Product: One (1) year for parts and ninety (90) days parts and labor from the date of purchase.

Additional items excluded from warranty coverage: Any consumable items such as paper supplied with the Product.

Where to obtain service: At a Sharp Authorized Servicer located in the United States. To find the location of the nearest Sharp Authorized Servicer, call toll free at 1-800-BE-SHARP.

What to do to obtain service: Ship (prepaid) or carry your Product to a Sharp Authorized Servicer. Be sure to have proof of purchase available. If you ship or mail the Product, be sure it is packaged carefully.

TO OBTAIN SUPPLIES, ACCESSORIES OR PRODUCT INFORMATION, CALL 1-800-BE-SHARP.

SHARP

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